



**Professor Artur Piekarczyk**

See:

<https://orcid.org/0000-0003-0988-4511>

<https://www.scopus.com/authid/detail.uri?authorId=55102717400>

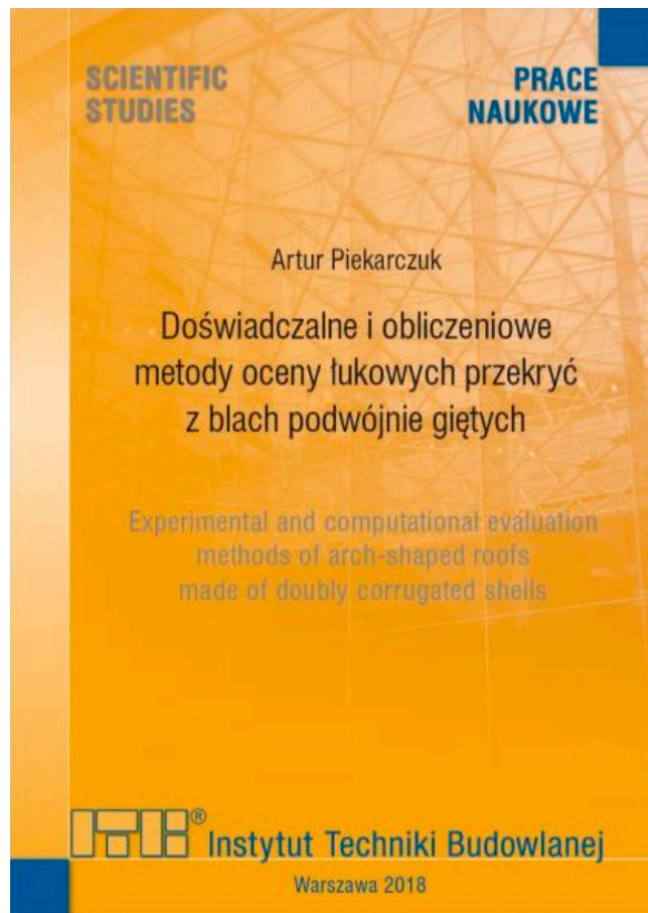
<https://publons.com/researcher/2687965/artur-piekarczyk/>

Building Research Institute  
Warsaw, Poland

### **Autobiography:**

My professional activity includes issues related to the examination and evaluation of construction products and the preparation of academic, technical and expert opinions on building construction structures as well as scientific articles in the field of buildings. My interests were focused on the use of modern methods of numerical analysis in research and expert works. I am currently the Manager of the Durability Testing Laboratory at the Construction and Building Elements, Geotechnics and Concrete Department at the Building Research Institute, Warsaw Poland. The scope of my professional activity includes issues related to the coordination, supervision and implementation of tests of construction elements and construction products. The scope of my duties includes supervision of laboratory tests in all areas of the department activities but also technical supervision over the entirety of the department's work related to assessments, opinions, scientific and technical expertise.

### **Selected Publications:**



Piekarczyk Artur. Experimental and computational evaluation methods of arch-shaped roof made of double corrugated shells (In Polish). Building Research Institute Warsaw, Poland, 2018

**Book:**

Piekarczyk Artur. Experimental and computational evaluation methods of arch-shaped roof made of double corrugated shells (In Polish). Building Research Institute Warsaw, Poland, 2018, 239 pages

**Journal Articles, etc.:**

Piekarczyk, A; Malowany, Krzysztof; Wiech, Przemysław; Kujawinska, Małgorzata; Sulik, Paweł; “Stability and bearing capacity of arch-shaped corrugated shell elements: experimental and numerical study”, Bulletin of the Polish Academy of Sciences Technical Sciences, 63,1, 113-123, 2015, De Gruyter

Malowany, Krzysztof; Malesa, Marcin; Piekarczyk, Artur; Kujawinska, Małgorzata; Skrzypczak, Paweł; Wiech, Przemysław; “Application of 3D digital image correlation for development and validation of FEM model of self-supporting metal plates structures, Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2016”, 98033W, 2016, International Society for Optics and Photonics

Piekarczyk, Artur; Wiech, Przemysław; Malowany, Krzysztof; “Numerical investigation into plastic hinge formation in arched corrugated thin-walled profiles”, Thin-Walled Structures, 119, 13-21, 2017, Elsevier

Piekarczyk, Artur; “Experimental study and numerical calculations in the analysis of thin-walled structures”, Proceedings of the 11th International Conference Shell Structures: Theory and Applications, (SSTA 2017), October 11-13, 2017, Gdansk, Poland, Volume 4, 449-452, 2017

Piekarczyk, Artur; “Test-supported numerical analysis for evaluation of the load capacity of thin-walled corrugated profiles”, Bulletin of the Polish Academy of Sciences Technical Sciences, 65, 6, 791-798, 2017, De Gruyter

Piekarczyk, Artur; “Experimental and numerical studies of double corrugated steel arch panels”, Thin-Walled Structures, 140, 60-73, 2019, Elsevier

Malowany, Krzysztof; Piekarczyk, Artur; Malesa, Marcin; Kujawinska, Malgorzata; Wiech, Przemysław;

“Application of 3D Digital Image Correlation for Development and Validation of FEM Model of Self-Supporting Arch Structures”, Applied Sciences, 9, 7, 1305, 2019, Multidisciplinary Digital Publishing Institute

Piekarczyk, Artur; Wiech, Przemysław; Cybulski, Robert; “Experimental method to evaluate the load-carrying capacity of double corrugated sheet profiles”, Thin-Walled Structures, 144, 106283, 2019, Elsevier